



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

February 23, 2012

FERC Project No. 10855
NATDAM Nos. MI00197, MI00175, MI00183

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project
License Article 405 – 2011 Annual Report-Operation Monitoring Plan

Article 405 of the Order Issuing License for the Dead River Hydroelectric Project dated October 2, 2002, and the Order Modifying and Approving Article 405 Operations Monitoring Plan dated March 11, 2010, requires Upper Peninsula Power Company (UPPCO) to submit an annual Operation Monitoring Report.

The annual report is required to include the following items:

- 1) A summary of reservoir surface elevations and flow data (see Appendix 1).
- 2) A summary of all deviations from required flows and reservoir elevations that occurred during the year (see Appendix 2).
- 3) A description of any corrective measures implemented during the course of the year, and measures implemented or proposed to improve future compliance, if necessary (see below)
A record of flushing flows that occurred in the McClure Bypass reach indicating when and if wood debris was transported downstream during the event (see below).
- 4) Summary of all gate and valve openings (see Appendix 3).
- 5) Documentation of consultation on the draft report (see Appendix 4)

A number of outages are associated with disturbances on the transmission lines due to both inclement weather and maintenance issues. In an attempt to reduce the number of trips associated with transmission lines, UPPCO Operations continues to consult with the UPPCO Line Clearance Group to determine if any additional tree trimming activities can reduce the number of transmission line disturbances associated with trees contacting the lines. Also a thorough inspection of the transmission system associated with the Hoist plant was completed and repairs were made late in the year.

During 2011, there was a one week period when the penstock was out of service for a required FERC Dam Safety inspection. As a result, flushing flows (the entire river flow) were passed over the spillway during this event. At times, the flows exceeded the 100 cfs level.

The flushing flows experienced in 2011 were sufficient to transport the woody debris that was accumulated below the spillway as a result of organic debris passage actions during the year. Also, verification of the flow through the siphon was completed by our consultant on July 21, 2011.

Ms. Kimberly D. Bose


February 23, 2012

Page 2 of 2

The Michigan Department of Natural Resources (MDNR), U. S. Fish and Wildlife Service (USFWS), and the Michigan Department of Environmental Quality (MDEQ) were sent a draft e-mail on January 13, 2011, and given a 30-day comment period (see Appendix 4). No comments were received.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in cursive script that reads "Bruce Crocker for".

Terry P. Jensky

Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc. 2011 Annual Report - Operation Monitoring Plan

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC CRO
	Mr. Dave Giesler, IBS - D2	Ms. Patricia Grant, FERC CRO
	Mr. Ben Trotter, IBS - D2	Mr. Steve Casey, MDEQ
	Mr. John Myers, IBS - D2	Mr. Paul Piszczek, MDNR
	Mr. Howard Giesler, WPSC - PUL	Mr. Vince Cavalier, FWS
	Mr. Robert Meyers, UPPCO - UISC	

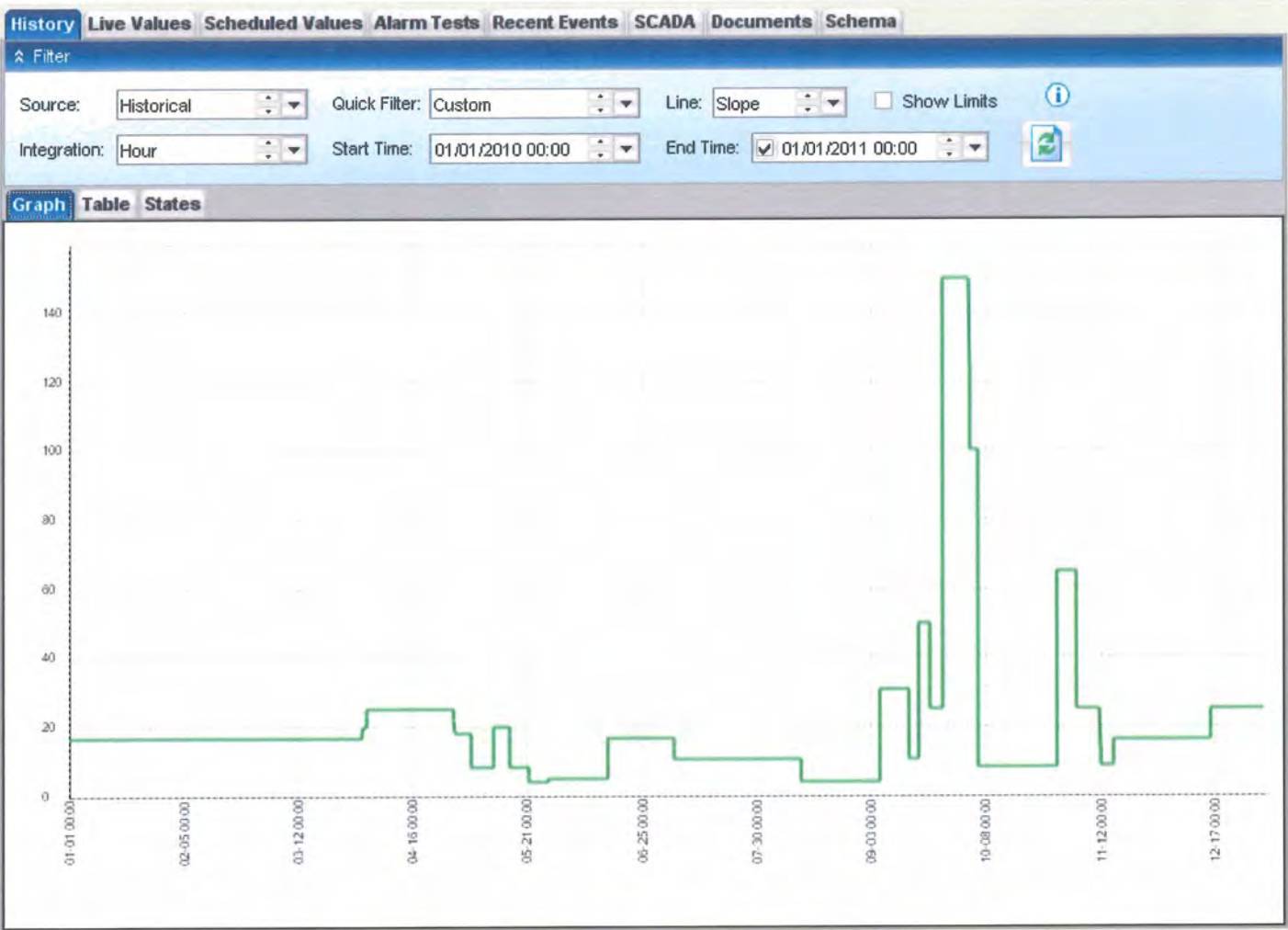
Appendix 1

Summary of Operations Data

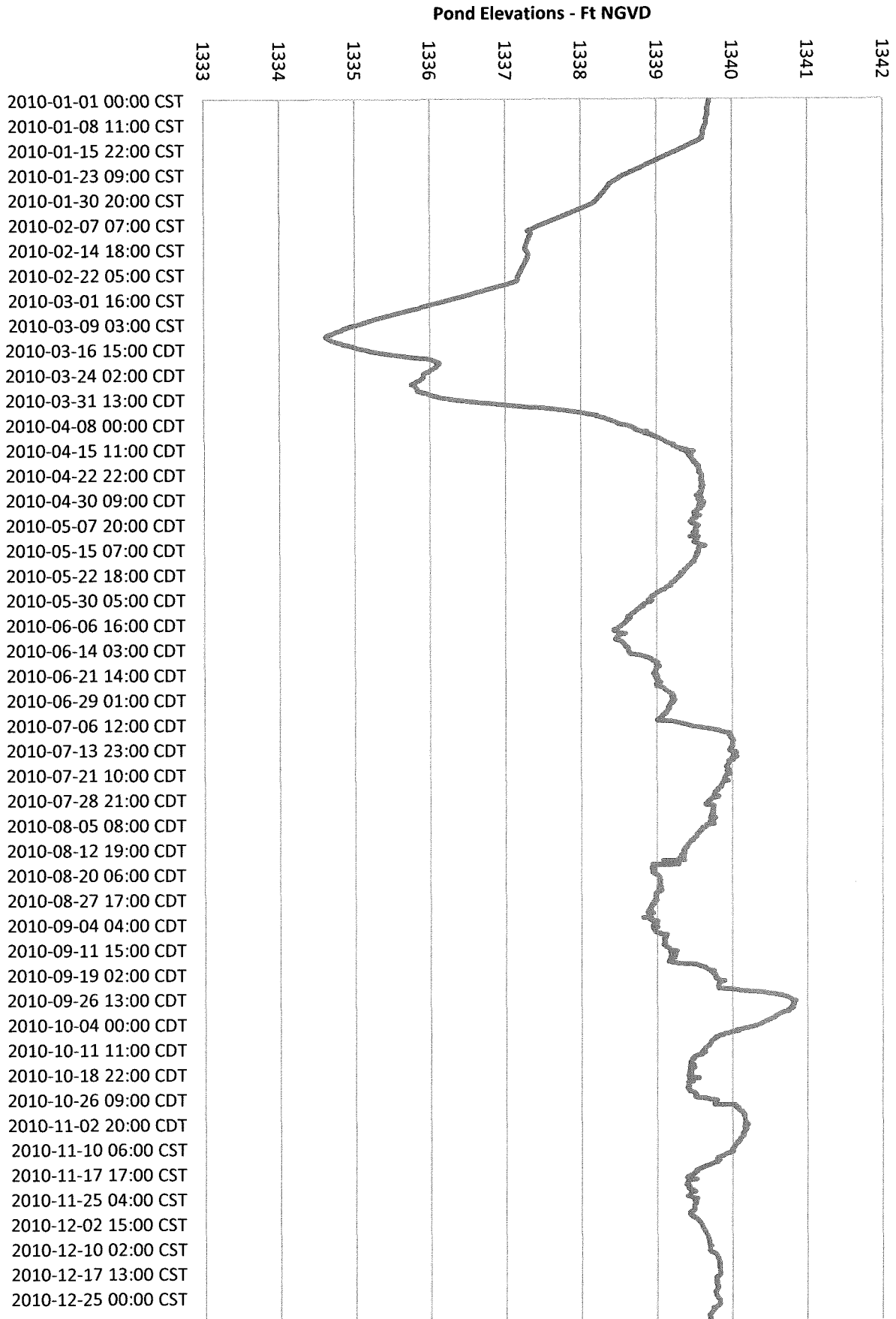
Point Info - UPPCO-SLK: Headwater Elevation

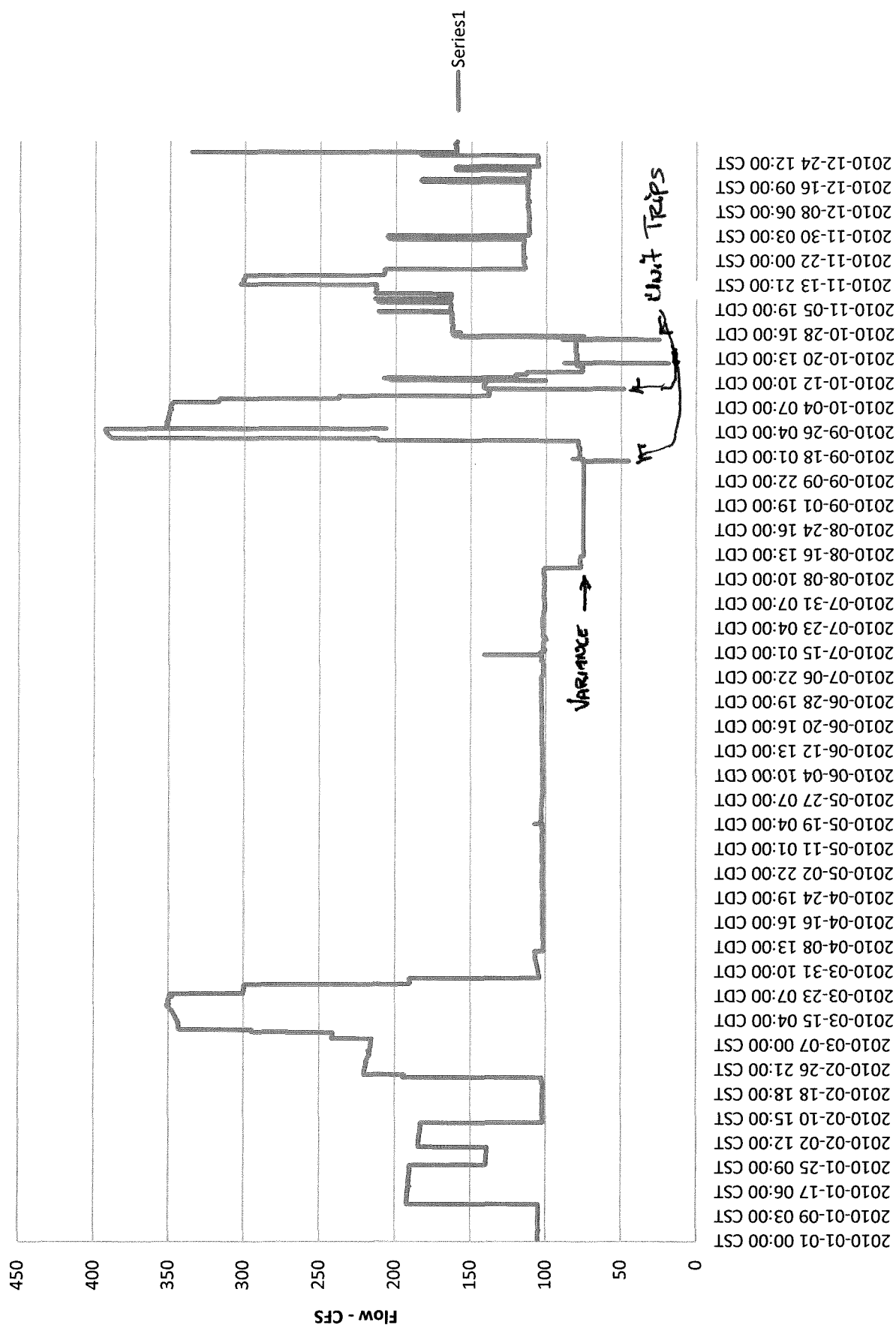


Point Info - UPPCO-SLK: TOTAL CFS



Hoist Pond Elevations 2010 Ferc Project 10855



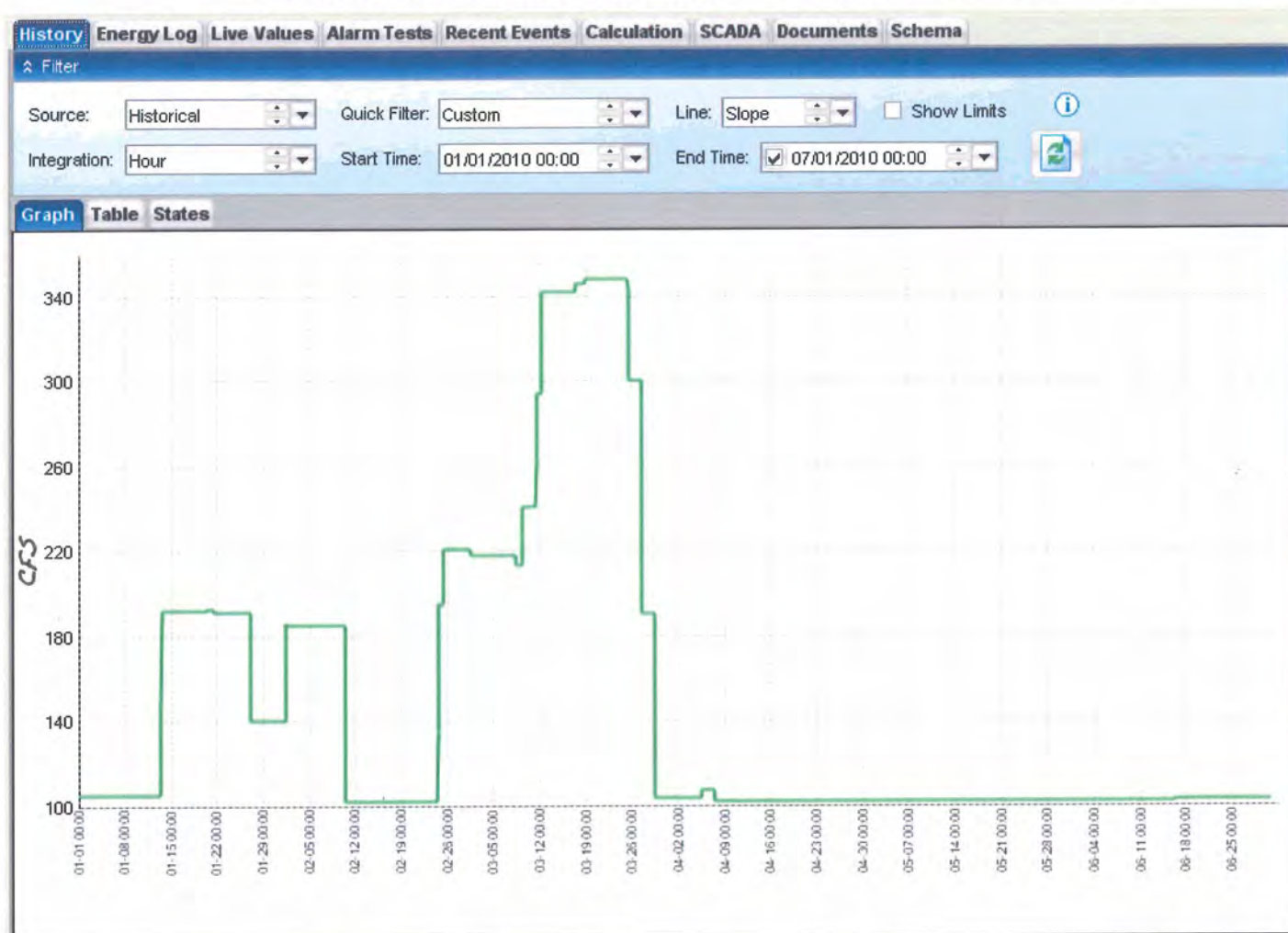


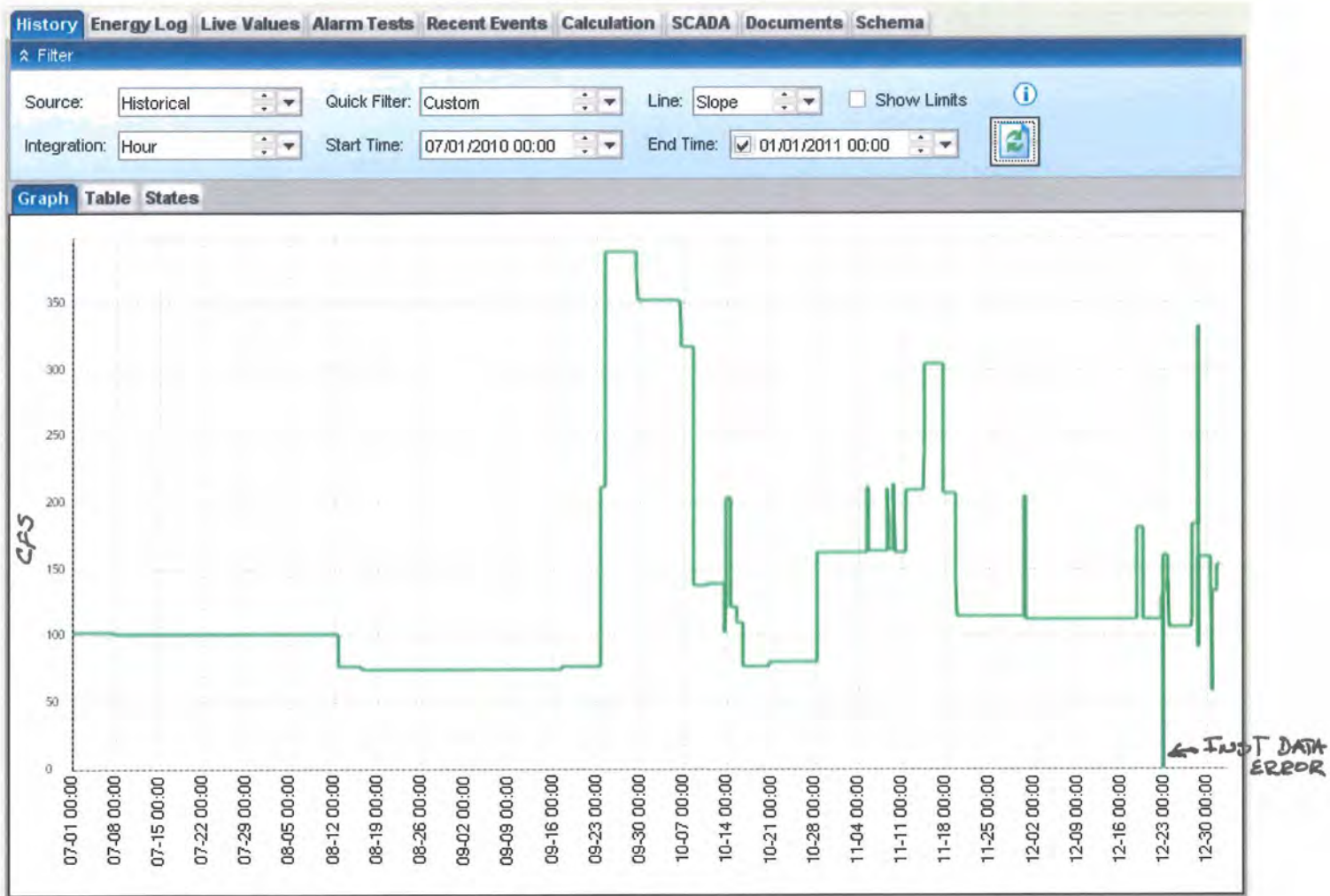
Point Info - UPPCO-MCLD: Pond Elevation *last 6 months*

Point Info - UPPCO-MCLD: Pond Elevation 2nd 6 months



Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS 1st 6 months



Point Info - UPPCO-MCL: UPP MCCLURE GEN TOTAL CFS *2nd 6 months*

Appendix 2

Summary of Deviations

Summary of Deviations for the Dead River Project FERC Project No. 10855

Project	Date	Deviation	Reason	
Hoist	2/25/2010	Below End of Month Min Elevation	Min Release exceeded Inflow and Requested Lower Min Pond Elevation from Agencies	
Hoist	4/3/2010	Returned above Month Min Elevation	Spring Runoff	
Hoist	5/29/2010	Below Pond Min Elevation	Min Release exceeded inflow and requested Dry Year Consultation	
Hoist	6/26/2010	Returned to required Min Elevation	Variance Filed	
Hoist	9/16/2010	Min Flow from Powerhouse below Min	Generator voltage Regulator fault	
Hoist	10/10/2010	Min Flow from Powerhouse below Min	Transmission Line Trip	
Hoist	10/19/2010	Min Flow from Powerhouse below Min	Transmission Line Trip	
Hoist	10/27/2010	Min Flow from Powerhouse below Min	Transmission Line Trip	
Silver Lake	5/3/2010	Min Flow below end of Month	Consultation with Agencies - maintain run-of -river scenario to maintain pond elevation	

Copy of FERC Correspondence attached



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

March 3, 2010

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Planned Deviation of Reservoir Elevation and Minimum Elevation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Environmental Quality (MDEQ), the Michigan Department of Natural Resources (MDNR) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDEQ, the MDNR and the FWS when pond elevation falls below the minimum level. Please consider this letter as fulfillment of the notification requirement for a planned deviation of reservoir elevation and a minimum elevation deviation.

On Thursday February 25, 2010 the Hoist Reservoir fell below the end of month minimum of 1337.0 ft NGVD because the required minimum flow release of 100 cfs exceeds the inflow to the reservoir for this season.

The agencies (MDEQ, MDNR and FWS) were informed of this event via e-mail on Thursday, February 25, 2010.

No adverse environmental impacts have been observed as a result of the low elevation condition.

In addition, comments on a planned deviation of the reservoir elevation to lower the reservoir in anticipation of the spring runoff and associated construction work at the McClure dam were requested from the agencies.

At McClure, the earthen embankment will be excavated with work progressing on the penstock replacement.

Ms. Kimberly D. Bose
March 3, 2010
Page 2 of 2

UPPCO requested agency comments on a drawdown of the Hoist Reservoir to an elevation of 1333 ft NGVD with a maximum rate not to exceed 0.3 ft per day. Drawing down the Hoist Reservoir will provide storage for spring runoff such that the reservoir at McClure will not need to rise as much to accommodate the spring runoff. Therefore, the stress on the earthen embankment at McClure during the construction will be reduced by the drawdown of the Hoist Reservoir.

UPPCO obtained mutual agreement among MDNR, and MDEQ on the planned deviation with no comments from the FWS. The documentation of consultation is enclosed.

No adverse environmental impacts are expected as a result of this planned deviation.

If you have any questions regarding this letter, please contact Shawn Puzen at (920) 433-1094 or Robert Meyers at (906) 485-2419.

Sincerely,



Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail correspondence from agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Gene Mensch, KBIC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC (CRO)
	Mr. Bob Juidici, WPSC - REG	Mr. Steve Casey, MDEQ
	Mr. Ben Trotter, WPSC - REG	Ms. Jessica Mistak, MDNR
	Mr. John Myers, WPSC - REG	Ms. Christie Deloria-Sheffield, FWS
	Mr. Howard Giesler, WPSC - PUL	Mr. Peter Chapman, FERC (CRO)
	Mr. Robert Meyers, UPPCO - UISC	Ms. Patricia Grant, FERC (CRO)



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

April 13, 2010

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on March 3, 2010.

As a follow-up to the March 3, 2010, deviation report, on Saturday April 3, 2010, the Hoist Reservoir rose above monthly minimum of 1337.0 ft NGVD. Inflow exceeded normal outflow due to spring runoff.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Tuesday April 13, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in dark ink, appearing to read "T. Jency", is written over a light blue horizontal line.

Terry P. Jency
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/abr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, WPSC - REG
Mr. Ben Trotter, WPSC - REG
Mr. John Myers, WPSC - REG
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC
Mr. Gene Mensch, KBIC
Ms. Peggy Harding, FERC (CRO)
Mr. Steve Casey, MDNRE
Ms. Jessica Mistak, MDNRE
Ms. Christie Deloria-Sheffield, FWS
Mr. Peter Chapman, FERC (CRO)
Ms. Patricia Grant, FERC (CRO)



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppc.com

June 10, 2010

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Minimum Elevation Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "at all times above the minimum elevations and strive to operate the existing project facilities to achieve the start of month target elevations." Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation occurred on May 29, 2010. The MDNRE, FWS, Keweenaw Bay Indian Community (KBIC), and the Dead River Campers were notified by email on June 1, 2010, the first business day following the event. As of 07:00 EDT on June 1, 2010, the pond elevation was 1338.81 ft NGVD and continues to trend down.

Dry year consultation with the MDNRE, FWS, KBIC, and the Dead River Campers is ongoing because a mutual agreement has not been reached.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose
June 10, 2010
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jensky", followed by the word "for" in a smaller, cursive script.

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Ms. Joan Johaneck, WPSC - D2	Mr. Peter Chapman, FERC - CRO
	Mr. Bob Juidici, IBS - REG	Ms. Patricia Grant, FERC - CRO
	Mr. Ben Trotter, IBS - REG	Mr. Gene Mensch, KBIC
	Mr. John Myers, IBS - REG	Mr. Steve Casey, MDNRE
	Mr. Howard Giesler, WPSC - PUL	Ms. Jessica Mistak, MDNRE
	Mr. Robert Meyers, UPPCO - UISC	Ms. Christie Deloria-Sheffield, FWS
	Mr. Keith Moyle, UPPCO - UISC	



Upper Peninsula Power Company
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

July 1, 2010

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Minimum Elevation Deviation

On June 10, 2010, Upper Peninsula Power Company (UPPCO) reported a deviation of the minimum headwater elevation at the Hoist Reservoir due to dry-year conditions. The minimum reservoir elevation deviation began on May 29, 2010.

On Saturday, June 26, at 08:30 EDT the Hoist Storage Basin rose above the required minimum elevation to an elevation of 1339.1 ft NGVD.

The Michigan Department of Natural Resources and Environment (MDNRE), Fish and Wildlife Service (FWS), Keweenaw Bay Indian Community (KBIC), and the Dead River Campers Inc. (DRCI) were notified by email on June 28th, 2010, the first business day following the event.

Dry year consultation with the MDNRE, FWS, KBIC, and the DRCI is ongoing, as the minimum elevation 1339.5 feet NGVD for July is not expected to be achieved before July 1, 2010. As a result, UPPCO filed for a variance on June 28, 2010.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Jensky".

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - REG
Mr. Ben Trotter, IBS - REG
Mr. John Myers, IBS - REG
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC

Ms. Peggy Harding, FERC - CRO
Mr. Peter Chapman, FERC - CRO
Ms. Patricia Grant, FERC - CRO
Mr. Gene Mensch, KBIC
Mr. Steve Casey, MDNRE
Ms. Jessica Mistak, MDNRE
Ms. Christie Deloria-Sheffield, FWS
Mr. James Grundstrum, DRCI
Mr. Darryl Sundberg, DRCI
Mr. Pete Dishow, DRCI



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.uppco.com

July 12, 2010

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Minimum Elevation Return to Normal Operation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, Upper Peninsula Power Company (UPPCO) is required to "strive to operate the existing project facilities to achieve the start of month target elevations". Storage basin elevations may also be modified for short periods upon mutual agreement among the licensee, the Michigan Department of Natural Resources & Environment (MDNRE) and the U.S. Fish and Wildlife Service (FWS).

In addition, the licensee is to file a deviation report with the Federal Energy Regulatory Commission, the MDNRE, and the FWS when pond elevation falls below the minimum level. The minimum elevation deviation report was submitted to the Commission on June 10, 2010.

On Wednesday July 7, 2010 at 16:00 hours EDT, the Hoist Reservoir rose above monthly minimum of 1339.5 ft NGVD. Recent rain fall increased the inflow and allowed the pond to recover.

The agencies (MDNRE and FWS) were informed of returning to normal elevations via e-mail on Thursday July 8, 2010.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jensky", followed by the word "for" in a smaller, cursive script.

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, WPSC - REG
Mr. Ben Trotter, WPSC - REG
Mr. John Myers, WPSC - REG
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC
Mr. Robert Meyers, UPPCO - UISC
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC

Ms. Peggy Harding, FERC (CRO)
Mr. Peter Chapman, FERC (CRO)
Ms. Patricia Grant, FERC (CRO)
Mr. Steve Casey, MDNRE
Ms. Jessica Mistak, MDNRE
Ms. Christie Deloria-Sheffield, FWS
Mr. Gene Mensch, KBIC
Mr. Pete Dishow, DRCI
Mr. Darryl Sundberg, DRCI
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

www.uppco.com

September 30, 2010

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Thursday, September 16, 2010, at 16:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped after being returned to service following an outage for maintenance work at the intake. The low level outlet was opened at 17:00 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 14:10 EDT on Friday September 17, 2010, and the project was returned to normal service when the low level outlet was closed at 14:55 EDT. The cause of the outage was due to a faulty voltage regulator that controls the generator voltage. Once a spare regulator was installed, the unit returned to normal service.

No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of this event via e-mail on Friday, September 17, 2010.

Ms. Kimberly D. Bose
September 30, 2010
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,



Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Bob Juidici, IBS - REG	Mr. Steve Casey, MDNRE
	Mr. Ben Trotter, IBS - REG	Ms. Jessica Mistak, MDNRE
	Mr. John Myers, IBS - REG	Ms. Christie Deloria-Sheffield, USFWS
	Mr. Howard Giesler, WPSC - PUL	Mr. James Grundstrum, DRCI
	Mr. Keith Moyle, UPPCO - UISC	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

October 29, 2010

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Sunday October 10, 2010, at 15:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. The transmission line tripped when a bird flew into the substation causing the breaker to open. Once the dead bird (a raven) was removed, the breaker was returned to service. The low level outlet was opened at 16:30 EDT re-establishing a minimum flow of 75 cfs. Generation was restored at 17:40 EDT and the project was returned to normal service when the low level outlet was closed at 18:40 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

On Tuesday October 19th, 2010, at 07:00 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault occurred on the transmission line. Several dead trees hit the line causing the trip. Unit 2 was placed on line at 07:48 EDT re-establishing the minimum flow of 75 cfs. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of both events via e-mail.

Ms. Kimberly D. Bose
October 29, 2010
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jensky", followed by the word "for" in a smaller, cursive script.

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/cmw

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Bob Juidici, IBS - D2	Mr. Steve Casey, MDNRE
	Mr. Ben Trotter, IBS - D2	Mr. Chris Freiburger, MDNRE
	Mr. John Myers, IBS - D2	Ms. Christie Deloria-Sheffield, USFWS
	Mr. Howard Giesler, WPSC - PUL	Mr. James Grundstrum, DRCI
	Mr. Keith Moyle, UPPCO - UISC	



Upper Peninsula Power Company
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

November 5, 2010

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Wednesday October 27, 2010, at 01:15 EDT, the continuous flow of 75 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when the transmission line tripped. High winds caused numerous trees located off the right-of-way to fall into the lines. The low level outlet was opened at 02:55 EDT re-establishing a minimum flow of 75 cfs. Several attempts were made to restore the unit to service but failed due to the severe weather. Unit 3 was restored to service on Thursday October 28, 2010, at 08:19 EDT. With the number of outages and other severe weather conditions, the Low Level Outlet (LLO) remained open and was closed on October 29, 2010, at 10:30 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail.

Ms. Kimberly D. Bose
November 5, 2010
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry P. Jensky".

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Bob Juidici, IBS - D2	Mr. Steve Casey, MDNRE
	Mr. Ben Trotter, IBS - D2	Mr. Chris Freiburger, MDNRE
	Mr. John Myers, IBS - D2	Ms. Christie Deloria-Sheffield, USFWS
	Mr. Howard Giesler, WPSC - PUL	Mr. James Grundstrum, DRCI
	Mr. Keith Moyle, UPPCO - UISC	



Upper Peninsula Power Company
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

May 7, 2010

FERC Project No. 10855
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development
Article 403 Minimum Flow Deviation

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, and the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDEQ, MDNR, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources and Environment (MDNRE) responded for the former MDEQ/ MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Saturday May 1, 2010, the outlet flow from Silver Lake was 18 cfs. On Monday May 3, the flow was reduced to 8 cfs. The MDNRE, KBIC and the FWS were notified of these conditions on Monday May 3, 2010, by email. The DRCI was notified by email on May 6, 2010. UPPCO is still reviewing the DRCI request for minimum flow reductions at Hoist, and consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

Ms. Kimberly D. Bose
May 7, 2010
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,

A handwritten signature in dark ink, appearing to read "T. Jensky", with a stylized, cursive script.

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Ms. Joan Johaneck, WPSC - D2	Mr. Peter Chapman, FERC - CRO
	Mr. Bob Juidici, IBS - REG	Ms. Patricia Grant, FERC - CRO
	Mr. Ben Trotter, IBS - REG	Mr. Gene Mensch, KBIC
	Mr. John Myers, IBS - REG	Mr. Steve Casey, MDNRE
	Mr. Howard Giesler, WPSC - PUL	Ms. Jessica Mistak, MDNRE
	Mr. Robert Meyers, UPPCO - UISC	Ms. Christie Deloria-Sheffield, FWS



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

May 24, 2010

FERC Project No. 10855
NATDAM No. MI00197

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - Silver Lake Development
Article 403 Minimum Flow Deviation

Per the Order Modifying and Approving Operations Monitoring Plan under Article 405 dated March 11, 2010, Upper Peninsula Power Company (UPPCO) is required to "maintain minimum flows at each of the three Dead River Project developments for the protection and enhancement of water quality, recreation, and aquatic resources in the Dead River as described below" (1) Maintain minimum flows from the Silver Lake dam for the month of May at 20 cfs.

In accordance with Article 402 of the Order Issuing License for the Dead River Hydroelectric Project dated October 4, 2002, Consultation during adverse conditions can be held with the Michigan Department of Natural Resources & Environment (MDNRE), Dead River Campers Inc. (DRCI), Keweenaw Bay Indian Community (KBIC), and U.S. Fish and Wildlife Service (FWS). In anticipation of the flow change in May, the MDNRE, DRCI, KBIC and the FWS were consulted. The consultation was completed via e-mail.

The Michigan Department of Natural Resources & Environment (MDNRE) responded in agreement for the former MDEQ/MDNR. The DRCI responded with a request to reduce the minimum flow from Hoist, and no replies were received from the others. The agreed upon plan was to maintain a run-of-river scenario trying to maintain a pond elevation.

On Monday, May 10, 2010, the outlet flow from Silver Lake was increased to the minimum of 20 cfs following snow fall over the weekend. On Saturday May 15th the flow was again reduced to 8 cfs when inflow could not match the outflow.

Ms. Kimberly D. Bose
May 24, 2010
Page 2 of 2

The MDNRE, KBIC, DRCI and the FWS were notified of these changes on Monday May 10, 2010, and Monday May 17, 2010, by e-mail. Consultation will continue at least weekly with the MDNRE, KBIC, DRCI and the FWS, based on the extreme dry conditions.

No adverse environmental impacts were seen as a result of this deviation.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Shawn Puzen at (920) 433-1094.

Sincerely,



Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Ms. Joan Johaneck, WPSC - D2	Mr. Peter Chapman, FERC - CRO
	Mr. Bob Juidici, IBS - REG	Ms. Patricia Grant, FERC - CRO
	Mr. Ben Trotter, IBS - REG	Mr. Gene Mensch, KBIC
	Mr. John Myers, IBS - REG	Mr. Steve Casey, MDNRE
	Mr. Howard Giesler, WPSC - PUL	Ms. Jessica Mistak, MDNRE
	Mr. Robert Meyers, UPPCO - UISC	Ms. Christie Deloria-Sheffield, FWS
	Mr. Virgil Schlorke, UPPCO - WRP	

Appendix 3

Summary of Gate and Valve Openings

Date: & Time	Pond Elevation feet - NGVD	LLO Position Open - Inch	Flow - CFS	Operator
01/13/10	1465.16	7.5	17	GB
03/09/10	1465.29	7	15	JL
04/01/10	1457.35	9	25.3	JL
04/27/10	1469.5	7	18	GL
05/03/10	1469.32	4	8	GB
05/10/10	1469.38	7.5	20	GB
05/15/10	1469.28	4	8	GB
05/23/10	1469.15	2.5	4	BS
05/27/10	1469.15	2.75	5	DG
06/14/10	1469.31	6.5	16.5	DG
06/02/10	1469.23	4.8	10.4	GB
08/12/10	1469.08	2	4	DG
09/04/10	1469.24	10	31	GL
09/09/10	1469.23	4	10	GL
09/16/10	1469.4	14	50	GL
09/20/10	1469.2	8	25	GK
09/24/10	1469.75	34	150	GL
09/29/10	1470	28	110	BS
09/30/10	1469.9	24	100	BS
10/04/10	1469.38	4	8	BS
10/27/10	1469.7	16	65	GL
11/01/10	1469.62	10	25	DG
11/11/10	1469.22	4	8.5	GB
11/15/10	1469.52	7	16	DG
12/15/10	1469.82	9	25	DG

Appendix 4

Documentation of Consultation

Appendix 4

Documentation of Consultation

Meyers, Robert J

From: Meyers, Robert J
Sent: Friday, January 13, 2012 10:23 AM
To: 'Casey, Steve (DNRE)'; 'Piszczekp@michigan.gov'; 'vince_cavalier@fws.gov'
Cc: Schlorke, Virgil E; Rushford, Emily B; Puzen, Shawn C; Meyers, Robert J
Subject: Dead River License Article 405 - 2011 Annual Operations Monitoring Plan - Draft Report - Attached
Attachments: Dead River Annual Operations Report Draft to Agencies 2011.pdf

Gang,

Attached is the Draft Report for your review and comments

Please review and send comments back by February 14th, 2012 so we can prepare the submittal for the FERC Commission.

Any Questions, Call or Email Me.

Thanks

Bob

Robert J. Meyers
UPPCO - Project Manager
500 N.Washington St.
Ishpeming, MI 49849
phone desk: (906) 485-2419
phone cell: (906) 362-8249
email: rjmeyers@uppcocom

This email and any of its attachments may contain proprietary information, which is privileged, confidential, protected by attorney-client privilege or subject to copyright belonging to WPSC/UPPCO/Integrus. This email is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this email, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this email is strictly prohibited and may be unlawful. If you have received this email in error, please notify the sender immediately and permanently delete the original and any copy of this email and any attachment. Thank you.



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

January 13, 2011

FERC Project No. 10855
NATDAM Nos. MI00197, MI00175, MI00183

MDEQ – Steve Casey
MDNR – Paul Piszczek
US Fish and Wildlife – Vincent Cavalieri

Dear (Agency – Representative)

Dead River Hydroelectric Project
License Article 405 – 2011 Annual Report-Operation Monitoring Plan - Draft

Article 405 of the Order Issuing License for the Dead River Hydroelectric Project dated October 2, 2002, and the Order Modifying and Approving Article 405 Operations Monitoring Plan dated March 11, 2010, requires Upper Peninsula Power Company (UPPCO) to submit an annual Operation Monitoring Report. The annual report is required to include the following items:

- 1) A summary of reservoir surface elevations and flow data (see Appendix 1).
- 2) A summary of all deviations from required flows and reservoir elevations that occurred during the year (see Appendix 2).
- 3) A description of any corrective measures implemented during the course of the year, and measures implemented or proposed to improve future compliance, if necessary (see below)
- 4) A record of flushing flows that occurred in the McClure Bypass reach indicating when and if wood debris was transported downstream during the event (see below).
- 5) Summary of all gate and valve openings (see Appendix 3).
- 6) Documentation of consultation on the draft report (see Appendix 4)

A number of outages are associated with disturbances on the transmission lines due to both inclement weather and maintenance issues. In an attempt to reduce the number of trips associated with transmission lines, UPPCO Operations continues to consult with the UPPCO Line Clearance Group to determine if any additional tree trimming activities can reduce the number of transmission line disturbances associated with trees contacting the lines. Also a thorough inspection of the transmission system associated with the Hoist plant was done and repairs were made late in the year.

During 2011, there were several outages and a one week long period when the penstock was out of service for a required FERC Dam Safety inspection. . As a result, flushing flows (the entire river flow) were passed over the spillway during these events. At times; these flows exceeded the 100 cfs level.

The flushing flows experienced in 2011 were sufficient to transport the woody debris that was accumulated below the spillway as a result of organic debris passage actions during the year. Verification of the flow through the siphon was completed by an outside consultant on July 21, 2011.

The Michigan Department of Natural Resources (MDNR), U. S. Fish and Wildlife Service (FWS), and the Michigan Department of Environmental Quality (MDEQ), were sent a draft e-mail on January 13, 2011 and given a 30-day comment period (see Appendix 4)

Ms. Kimberly D. Bose

February 25, 2011

Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky

Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc. 2011 Annual Report-Operation Monitoring Plan

cc:

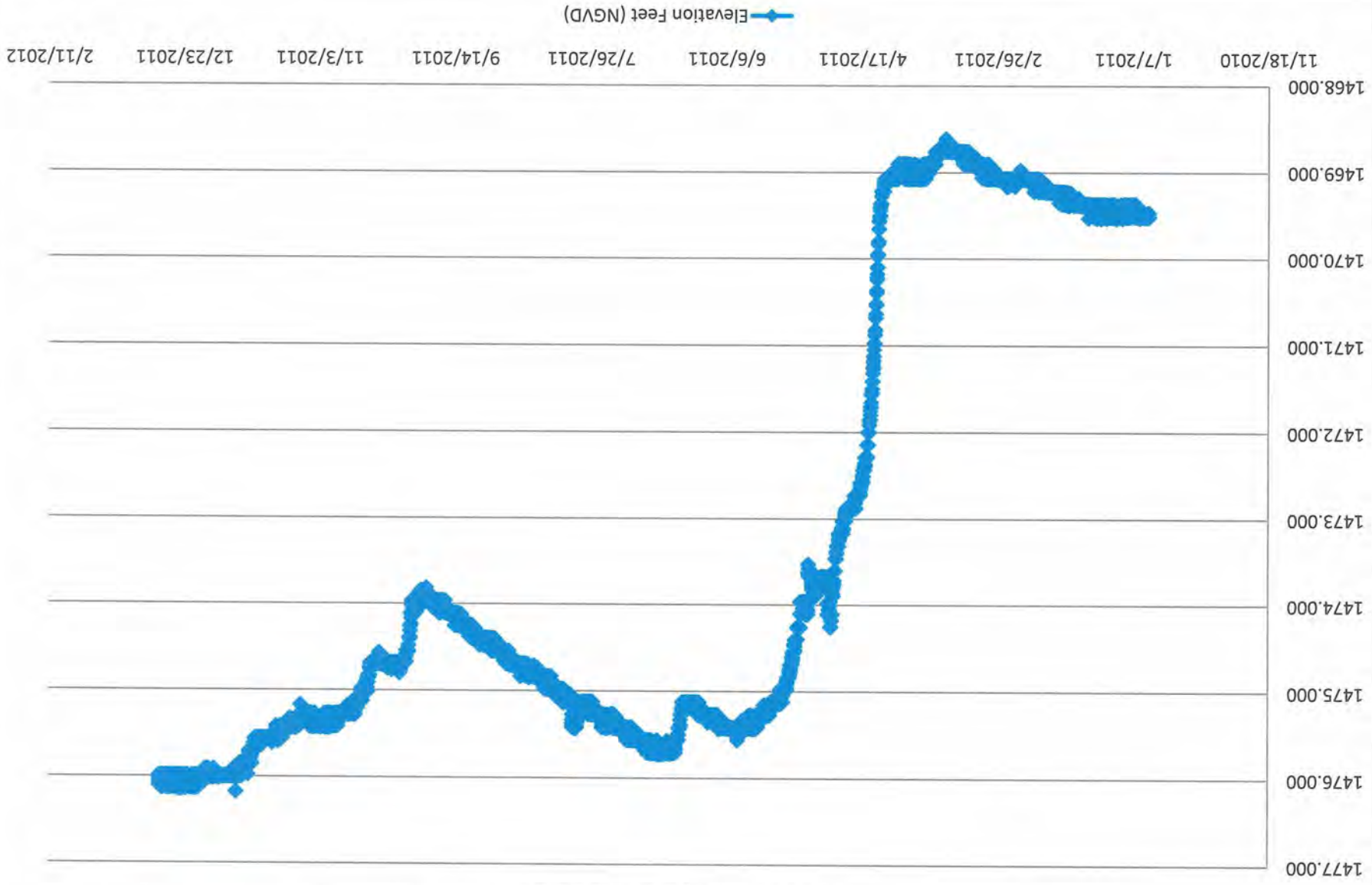
Mr. Shawn Puzen, IBS - D2

Mr. Virgil Schlorke, UPPCO - UISC

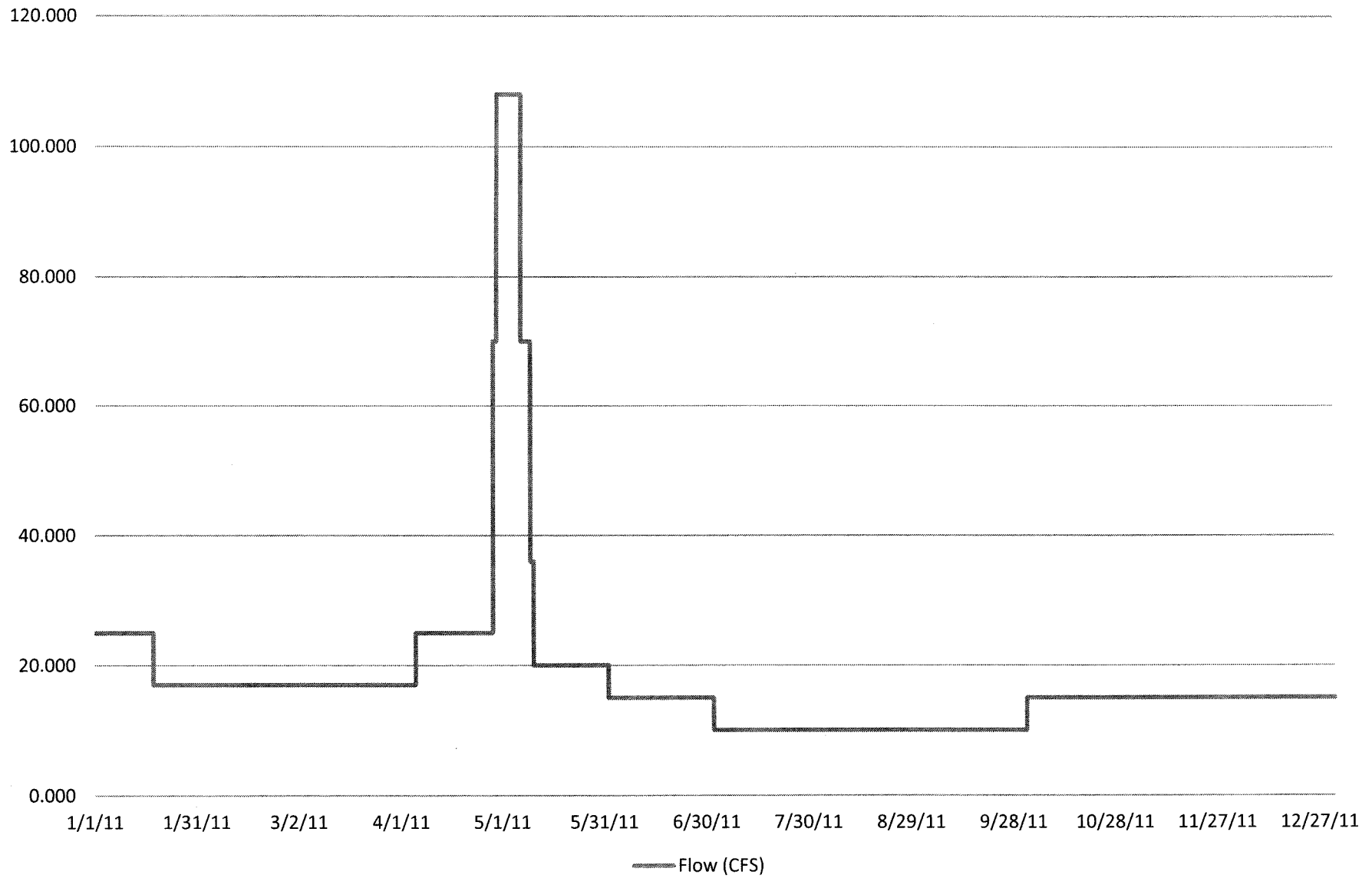
Appendix 1

Summary of Operations Data - Graphs

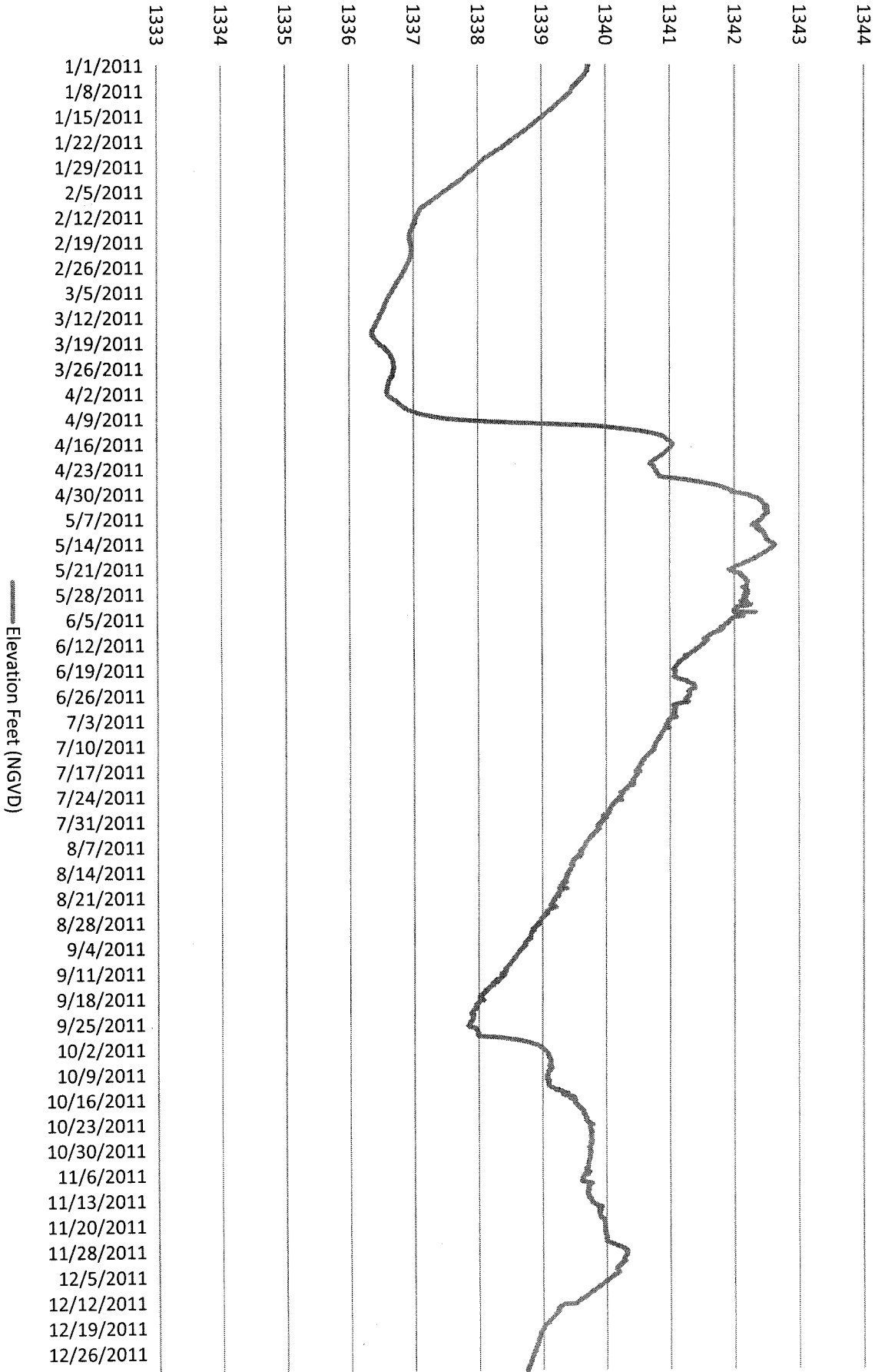
Silver Lake 2011 Elevation Feet (NGVD) vs. Time
FERC Project 10855



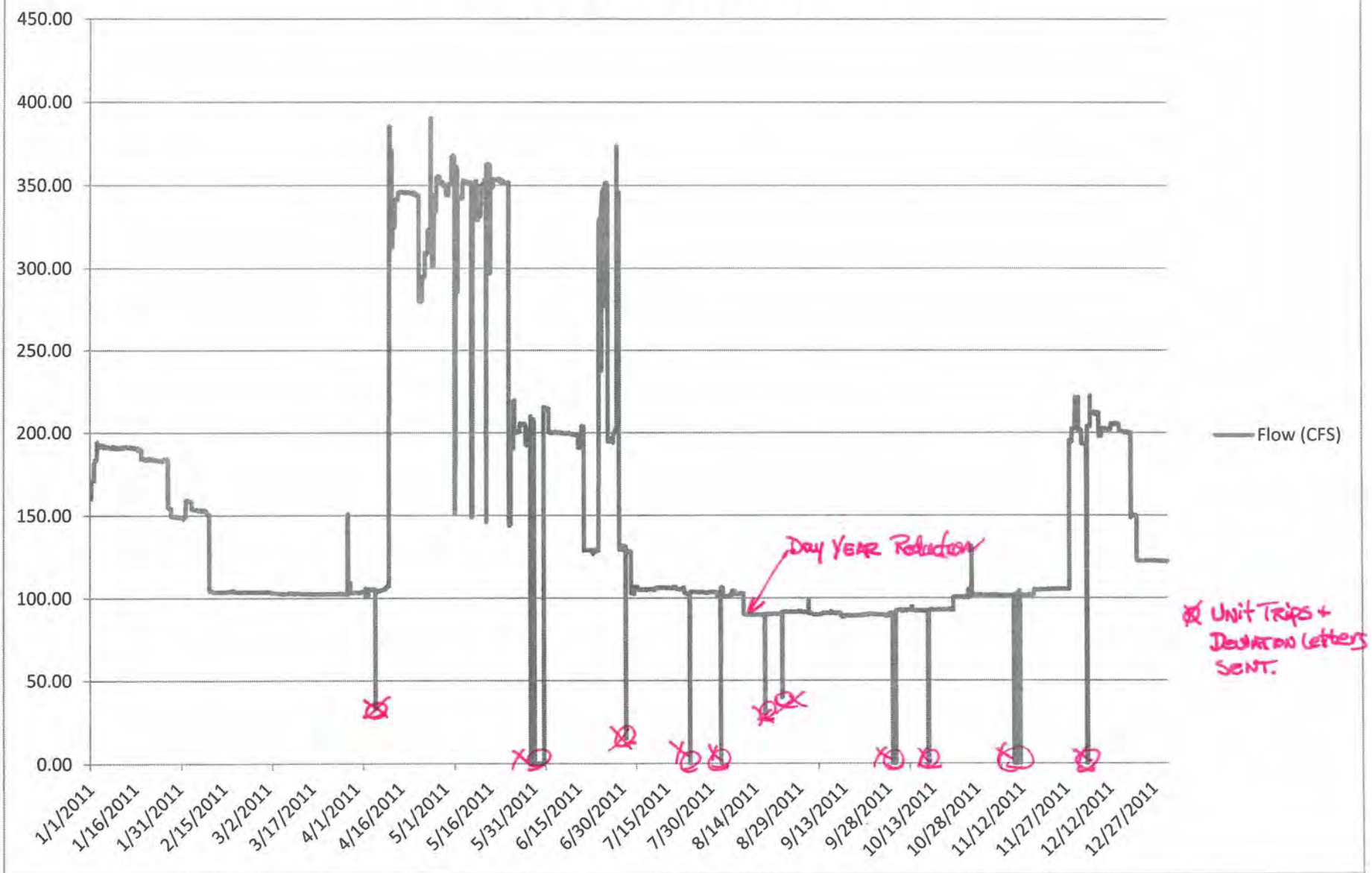
Silver Lake Flow (cfs) 2011 vs. Time FERC Project 10855



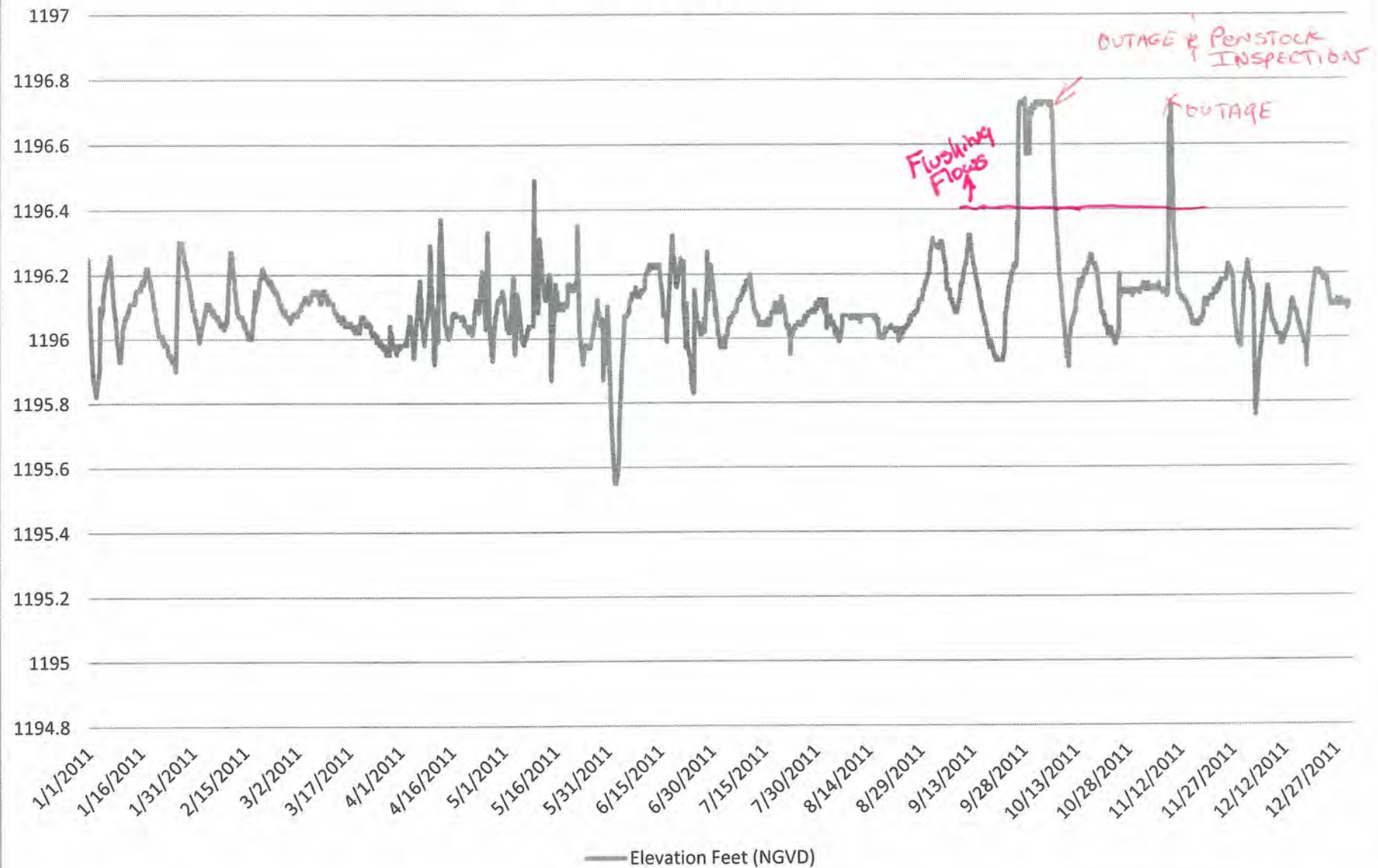
Hoist 2011 Elevation Feet (NGVD) vs Time
FERC Project 10855



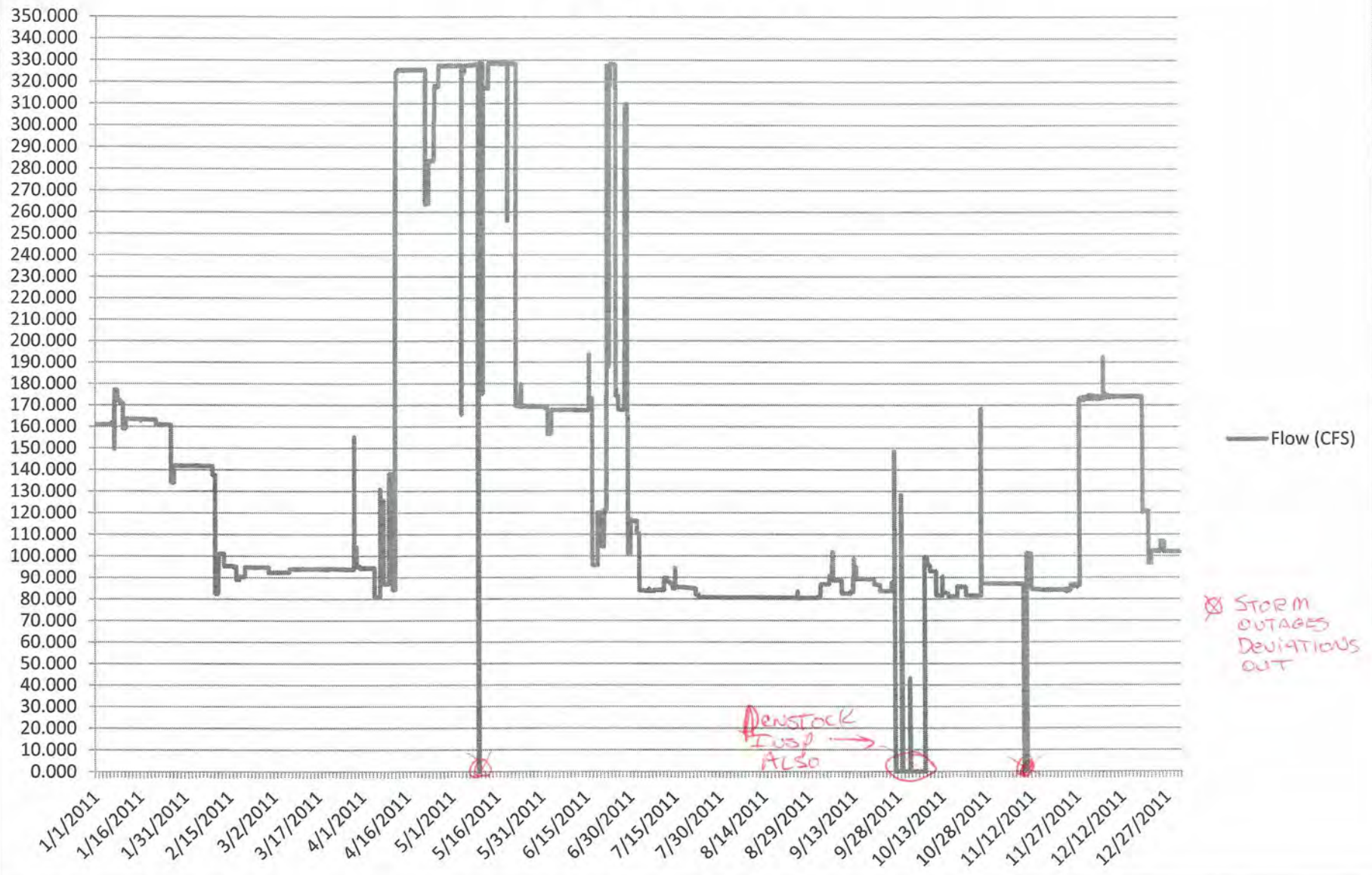
Hoist 2011 Flow (CFS) vs Time FERC Project 10855



McClure 2011 Elevation Feet (NGVD) vs time FERC Project 10855



McClure 2011 Plant Flow (CFS) vs Time FERC Project 10855



Appendix 2

Summary of Deviations & Deviation Reports

Summary of Deviations for the Dead River Project FERC Project No. 10855 – 2011

Project	Date	Deviation	Reason
Hoist	2/16/2011	Below End of Month Minimum Pond Elevation	Minimum Release exceeded Inflow – requested Dry Year Consultation with Agencies 2/9/2011 – No changes to operations done.
Hoist	4/1/2011 4/8/2011	Below End of Month Minimum Pond Elevation Returned to Normal Minimum Pond Elevation	Minimum Release exceeded Inflow – Agencies Notified Spring refill
Hoist	4/7/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist/McClure	5/10/2011	Minimum Flow from Powerhouse(s) below Min	Transmission Line Trip
Hoist	5/30/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	7/1/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	7/23/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	8/2/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	8/11/2011	Below End of Month Minimum Pond Elevation	Minimum Release exceeded Inflow, Dry Year Consultation with Agencies Reduced Minimum flows for Hoist & McClure
Hoist	8/17/2011 8/23/2011	Minimum Flow from Powerhouse below Min Minimum Flow from Powerhouse below Min	Transmission Line Trip Transmission Line Trip
McClure	9/27/2011	Minimum Flow from Powerhouse below Min Pond Elevation exceeded High Level	Transmission Line Trip Outage and Penstock Inspection, provided flushing flows
Hoist	9/29/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/11/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip
Hoist	10/20/2011	Returned to Normal Pond Elevation	Inflow adequate to maintain pond elevation – Dry year Consultation Ended
Hoist/McClure	11/9/2011 11/11/2011	Minimum Flow from Powerhouse below Min Head Water Elevation above Max – McClure	Transmission Line Trip Returned to Normal 11/11/2011
Hoist	12/4/2011	Minimum Flow from Powerhouse below Min	Transmission Line Trip



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

February 24, 2011

FERC Project No. 10855

NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Storage Basin Levels

In accordance with Article 402 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when storage basin elevations falls below the minimum requirement. Please consider this letter as fulfillment of the notification requirement for a minimum storage level deviation.

On Wednesday, February 16, 2011, the storage elevation fell below the minimum end of month elevation of 1337 NGVD when the pond was at 1336.98 NGVD. Dry year consultation started on Friday, February 9, 2011, and was updated on February 16, 2011. The responses indicated changes to operations are not necessary at this time.

The required entities (Michigan Department of Environmental Quality, Michigan Department of Natural Resources, U.S. Fish and Wildlife Service, Keweenaw Bay Indian Community, and Dead River Campers Inc.) were informed of the event via e-mail on February 16, 2011, and are being updated with current conditions.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email correspondence to the agencies

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2
Mr. Howard Giesler, WPSC - PUL
Mr. Keith Moyle, UPPCO - UISC

Mr. Robert Meyers, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO
Mr. Steve Casey, MDNRE
Mr. Kyle Kruger, MDNRE
Ms. Christie Deloria-Sheffield, USFWS
Mr. James Grundstrum, DRCI
Mr. Gene Mensch, KBIC



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

April 8, 2011

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Hoist Storage Basin Levels

Per the Commission's letter dated March 14, 2011, Upper Peninsula Power Company (UPPCO) is to notify the Commission if it does not meet the minimum monthly elevation for April. Please consider this letter as fulfillment of the notification requirement.

On Friday April 1, 2011, the elevation of the Hoist Reservoir was 1336.59 feet NGVD and continued to be below the minimum monthly elevation of 1337 NGVD.

As of today, the reservoir elevation has returned to an elevation above 1337.0 feet NGVD and this period of dry-year consultation is complete.

The required entities (Michigan Department of Environmental Quality, Michigan Department of Natural Resources, U.S. Fish and Wildlife Service, Keweenaw Bay Indian Community, and Dead River Campers Inc.) were informed of the elevation event via e-mail on April 1, 2011, and are being updated with current conditions.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email correspondence to the agencies

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2
Mr. Howard Giesler, WPSC - PUL
Mr. Keith Moyle, UPPCO - UISC

Mr. Robert Meyers, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO
Mr. Mitch Koetje, MDEQ
Mr. Kyle Kruger, MDNR
Ms. Christie Deloria-Sheffield, USFWS
Mr. James Grundstrum, DRCL
Mr. Gene Mensch, KBIC



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.uppco.com

April 15, 2011

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Thursday April 7, 2011 at 17:15 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault on the transmission line occurred. Wind gusts caused a monetary tree contact with the transmission line to trip the unit. An operator arrived on-site and returned the unit to service at 18:25. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Friday April 8th, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO
Mr. Mitch Koetje, MDEQ
Mr. Kyle Kruger, MDNR
Ms. Christie Deloria-Sheffield, USFWS
Mr. James Grundstrum, DRCI
Mr. Gene Mensch, KBIC



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

May 18, 2011

FERC Project No. 10855
NATDAM No. MI00175, MI00183

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist and McClure Hydroelectric Projects
Article 402 Elevations and Article 403 Minimum Flows

In accordance with Article 402 and 403 of the Order Issuing License for the Dead River Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when reservoir elevations and minimum discharge requirements from the developments are exceeded, respectively. Please consider this letter as fulfillment of the notification requirement for a reservoir elevation and minimum flow deviation.

On Tuesday, May 10, 2011 at 04:29 EDT, the minimum flow requirement of 100 cfs and 80 cfs was disrupted due to generator trips at the Hoist and McClure Developments respectively. Storms moving through the area caused a transmission outage resulting in loss of power across a large portion of the Upper Peninsula of Michigan.

Operators were dispatched to both the Hoist and McClure Developments. At the Hoist Development, the Low Level Outlet was opened at 05:50 EDT which reestablished the 100 cfs minimum flow. With reestablishment of the minimum flow from the Hoist Development, the McClure reservoir continued to rise until at 09:15 EDT, it exceeded the elevation of 1196.40 and started to spill over the spillway reestablishing the minimum flow requirement of 80 cfs. Flows reached approximately 120 cfs through the McClure Development during this event.

McClure generation returned to service at 10:37 EDT, and subsequently, the reservoir drawn down and the spilling stopped at 11:30 EDT.

Hoist generation returned to service at 11:14 EDT. The Low Level Outlet was closed at 12:00 EDT with the generation reestablishing the required minimum flow.

No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Tuesday, May 10, 2011.

Ms. Kimberly D. Bose

May 18, 2011

Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky

Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO
Mr. Mitch Koetje, MDEQ
Mr. Peter Piszczek, MDNR
Ms. Christie Deloria-Sheffield, USFWS
Mr. James Grundstrum, DRCI
Mr. Gene Mensch, KBIC



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

June 8, 2011

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Monday, May 30, 2011 at 02:50 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault on the transmission line occurred. Lightning from a thunderstorm caused an ATC transmission line to trip, which caused a voltage problem that tripped the unit. An operator arrived on-site and opened the Low Level Outlet at 04:00 EDT establishing the minimum flow, and returned the unit to service at 05:13 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Tuesday, May 31, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc. E-mail Notification to the Agencies

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2

Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

July 11, 2011

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Friday July 1, 2011 at 13:20 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault in the transmission line occurred. A small fire at a substation caused fault on the transmission line to tripping the unit. An operator arrived on-site opened up the Low Level Outlet at 13:55 EDT to establish the 100 cfs in the river and returned the unit to service at 14:22 EDT. The LLO was closed at 14:57. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Tuesday July 5, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

Enclosures: email notification

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2

Mr. Howard Giesler, WPSC - PUL
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Mr. Robert Meyers, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO



Upper Peninsula Power Company

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

www.uppco.com

July 29, 2011

FERC Project No. 10855

NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS) and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Saturday, July 23, 2011, at 06:30 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault in the transmission line occurred. An operator arrived on-site opened up the Low Level Outlet (LLO) at 07:20 EDT to establish the 100 cfs in the river and returned the unit to service at 08:20 EDT. The LLO was closed at 08:45. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Monday, July 25, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jensky", is written over a light blue horizontal line.

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

Enc: Email Notification

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2

Mr. Howard Giesler, WPSC - PUL
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Mr. Robert Meyers, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.uppco.com

August 12, 2011

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Tuesday, August 2, 2011, at 17:30 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault in the transmission line occurred. An operator arrived on-site at 18:10 EDT; reset the relays, brought the unit back on-line and reestablished the 100 cfs minimum flow at 18:20 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Thursday, August 11, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Jency", is written over a horizontal line.

Terry P. Jency
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

Enc: Email notification

RJM/ebr

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johanek, WPSC - D2
Mr. Bob Juidici, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2

Mr. Howard Giesler, WPSC - PUL
Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Mr. Robert Meyers, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

August 23, 2011

FERC Project No. 10855

NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Storage Basin Levels & 403 Minimum Flows & 405 Operations Monitoring Plan

In accordance with Article 402, 403 and 405 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement and minimum elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of deviations.

On Tuesday, August 9, 2011, Dry Year Consultation began with the agencies in anticipation of the minimum elevation exceedence by the end of the week. Based on the Dry Year Consultation, flow adjustments were done on Wednesday, August 10, 2011. The minimum flow from the Hoist was adjusted down to 90 cfs, and the bypass reach of McClure was reduced down to 10 cfs. No adverse environmental impacts were observed as a result of any of the low flow conditions. Regardless of the adjustments on Thursday, August 11, 2011, at 18:00 EDT, the minimum elevation of 1339.5 feet for August was reached.

UPPCO and the agencies (MDEQ, MDNR, USFWS and DRCI) began dry year consultation (8-9-2011) and were informed by e-mail on Friday, August 12, 2011, of the reduced flows and the pond elevation going below 1339.5 feet NGVD.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email Correspondence

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Dave Giesler, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO
Mr. William Taft, MDEQ
Mr. Mitch Koetje, MDEQ
Mr. Paul Piszczek, MDNR
Mr. James Grundstrum, DRCI



Upper Peninsula Power Company

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

www.uppco.com

August 26, 2011

FERC Project No. 10855

NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Wednesday, August 17, 2011, at 15:12 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault in the transmission line occurred. An operator arrived on-site at 15:20 EDT; reset the relays, brought the unit back on-line and reestablished the 100 cfs minimum flow at 15:52 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

On Tuesday, August 23, 2011, at 10:50 EDT, the continuous flow of 100 cfs was disrupted following a turbine generator trip at the Hoist powerhouse. The Unit 3 turbine generator tripped when a fault in the transmission line occurred. An operator arrived on-site at 11:05 EDT; reset the relays, brought the unit back on-line and reestablished the 100 cfs minimum flow at 11:25 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

Following the trip on August 17, 2011, the electrical department has done extensive research, including helicopter patrols, video analysis, tree trimming – right of way clearance, structure inspections, pole insulator inspections, substation inspections, inferred detection, and is in the process of installing additional test equipment to determine the root cause of the transmission line faults.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Thursday, August 18, 2011, and Wednesday August 24, 2011.

Ms. Kimberly D. Bose
August 26, 2011
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email Notifications

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Shawn Puzen, IBS - D2	Mr. Robert Meyers, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Dave Giesler, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Mr. Ben Trotter, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Mr. John Myers, IBS - D2	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

October 6, 2011

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Projects
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources & Environment (MDNRE), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Thursday, September 29, 2011, at 18:35 EDT, the continuous flow of 90 cfs was disrupted following a plant trip. The Hoist plant was tripped off line when a fault on the transmission line occurred. High winds and significant wind gusts caused multiple trees to fall, hindering access to the site and causing a transmission line fault. An operator arrived on-site and opened the low level outlet on Friday, September 30, 2011, at 01:00 EDT. The plant was returned to service and the unit put online on Friday, September 30, 2011, at 22:11 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Friday September 30, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: September 30, 2011 Email notification to agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Ms. Peggy Harding, FERC - CRO
	Mr. Dave Giesler, IBS - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Ben Trotter, IBS - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. John Myers, IBS - D2	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

October 7, 2011

FERC Project No. 10855
NATDAM No. MI00183

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Dead River Hydroelectric Project - McClure Development
Article 402 Reservoir Levels and Article 403 Minimum Flows

According to Article 402 and Article 403 of the license for the Dead River Hydroelectric Project, when the reservoir elevation exceeds the license maximum of 1196.40 feet and discharge from the powerhouse falls below the allowable minimum level of 80 cfs, a deviation report must be filed with the Federal Energy Regulatory Commission (FERC), and notification must be made to the Michigan Department of Environmental Quality (MDEQ), Michigan Department of Natural Resources (MDNR), and U.S. Fish and Wildlife Services (USFWS). Please consider this letter as fulfillment of the deviation report requirement.

On Tuesday, September 27, 2011, at 10:15 EDT, the McClure Plant tripped due to a fault on the 33 Kv transmission line. An Operator was at the plant and attempted to restart the unit. The attempt failed due to damaged instrumentation caused by the fault. The reservoir level went from 1,196.4 feet to 1,196.7 feet resulting in spilling from the dam and established "run of river" conditions. Repairs and checks were completed and a unit put back into service on September 29, 2011 at 14:30 EDT.

The unit tripped again due to high winds and significant wind gusts causing multiple trees to fall, hindering access to the site and resulting in another transmission line fault on September 29, 2011, at 21:30 EDT. Spilling at the dam continued, due to the short duration the plant was online, maintaining the required minimum flow in the Dead River. The McClure plant remains off-line due to a planned penstock inspection. Spilling continues at the McClure dam maintaining the required minimum flow (Please note: UPPCO is currently operating under dry-year consultation with the appropriate stakeholders and minimum flow releases from the powerhouse are set at 80 cfs and minimum flow releases into the bypass reach are set at 10 cfs). The inspection and subsequent repairs are scheduled to be completed by Friday, October 7, 2011, at which time the plant will be put back into service.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the events via e-mail on Wednesday, September 28, 2011, and Friday, September 30, 2011. Copies of the notifications are enclosed.

Ms. Kimberly D. Bose
October 7, 2011
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: September 28, 2011 & September 30, 2011 Email notification to agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johanek, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Dave Giesler, IBS - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Ben Trotter, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Mr. John Myers, IBS - D2	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

October 25, 2011

FERC Project No. 10855
NATDAM No. MI00175

Contains Critical Energy Infrastructure Information – Do Not Release

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Projects
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

On Tuesday, October 11, 2011, at 19:43 EDT, the continuous flow of 90 cfs was disrupted following a plant trip. The Hoist plant was tripped off line when a fault on the transmission line occurred. High winds caused a tree to fall on the line breaking a cross arm, which caused the fault tripping the line and plant. An operator arrived on-site and opened the low level outlet on Tuesday, October 11, 2011, at 21:25 EDT. The plant was returned to service and the unit put online on Wednesday, October 12, 2011, at 01:29 EDT. No adverse environmental impacts were observed as a result of any of the low flow conditions.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Wednesday October 12, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: October 12, 2011 Email notification to agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Dave Giesler, IBS - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Ben Trotter, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Mr. John Myers, IBS - D2	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

October 28, 2011

FERC Project No. 10855

NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Project
Article 402 Storage Basin Levels & 403 Minimum Flows & 405 Operations Monitoring Plan

In accordance with Article 402, 403, and 405 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement and minimum elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of these deviations.

On Tuesday, August 9, 2011, Dry Year Consultation began with the agencies. Based on the Dry Year Consultation, flow adjustments were done on Wednesday, August 10, 2011. The minimum flow from Hoist was adjusted down to 90 cfs, and the bypass reach of McClure was reduced down to 10 cfs. On Thursday, October 20, 2011, at 10:00 EDT, the minimum elevation of 1339.5 feet was exceeded with recent rain events. The current elevation is 1339.63 feet and minimum flow of Hoist was adjusted back up to 100 cfs and bypass reach of McClure was increased to 20 cfs.

UPPCO and the agencies (MDEQ, MDNR, USFWS and DRCI) began Dry Year Consultation (8-9-2011) and were informed by e-mail on Thursday, October 20, 2011, of the increased flows and the pond elevation going above 1339.5 feet NGVD.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email Correspondence

cc: Mr. Gil Snyder, WPSC - D2
Mr. Shawn Puzen, IBS - D2
Ms. Joan Johaneck, WPSC - D2
Mr. Dave Giesler, IBS - D2
Mr. Ben Trotter, IBS - D2
Mr. John Myers, IBS - D2

Mr. Keith Moyle, UPPCO - UISC
Mr. Virgil Schlorke, UPPCO - UISC
Mr. Howard Giesler, WPSC - PUL
Mr. Robert Meyers, UPPCO - UISC
Ms. Peggy Harding, FERC - CRO



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

November 17, 2011

FERC Project No. 10855
NATDAM Nos. MI00175 & MI00183

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Dead River System – Hoist & McClure Hydroelectric Projects
Article 402 Storage Basin Levels & 403 Minimum Flows & 405 Operations Monitoring Plan

In accordance with Article 402, 403, and 405 of the Order Issuing License for the Hoist Hydroelectric Project dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission (FERC), Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement and/or reservoir elevations are exceeded. Please consider this letter as fulfillment of the notification requirement of these deviations.

On Wednesday, November 9, 2011, heavy, wet snow caused transmission line faults resulting in the Hoist plant tripping off line at 16:28 EST and the McClure plant at 17:02 EST.

The low level outlet at the Hoist plant was opened at 19:35 EST, reestablishing the minimum flow from Hoist. The Hoist plant was returned to service at 20:12 hours, EST, on Thursday, November 10, 2011, and the low level outlet was closed at 21:00 EST returning the plant to normal operation.

At McClure, the headwater pond elevation rose above the 1196.4 feet NGVD maximum elevation to 1196.69 feet NGVD during the outage. The McClure plant was returned to service on Thursday, November 10, 2011, at 19:09 EST, which reestablished the minimum flow from the powerhouse. The pond elevation returned to normal operational range by Friday, November 11, 2011.

Continued storm related issues caused low voltage conditions, resulting in the Hoist plant tripping a second time on Friday, November 11, 2011, at 05:08 EST. An operator was dispatched and returned the plant to normal operation at 07:02 EST.

All transmission line repairs have been completed and no further issues are anticipated.

UPPCO and the agencies (MDEQ, MDNR, USFWS and DRCI) were informed by email on Thursday, November 10 and 11, 2011, of the events.

Ms. Kimberly D. Bose
November 17, 2011
Page 2 of 2

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: Email Correspondence to Agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Shawn Puzen, IBS - D2	Mr. Robert Meyers, UPPCO - UISC
	Ms. Joan Johaneck, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Dave Giesler, IBS - D2	Mr. Virgil Schlorke, UPPCO - UISC
	Mr. Ben Trotter, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Mr. John Myers, IBS - D2	



Upper Peninsula Power Company

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.uppco.com

December 12, 2011

FERC Project No. 10855
NATDAM No. MI00175

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Hoist Hydroelectric Projects
Article 403 Minimum Flows

In accordance with Article 403 of the Order Issuing License for the Hoist Hydroelectric Project, dated October 4, 2002, the licensee is required to file a deviation report with the Federal Energy Regulatory Commission, Michigan Department of Natural Resources (MDNR), Michigan Department of Environmental Quality (MDEQ), U.S. Fish and Wildlife Services (USFWS), and the Dead River Campers Inc. (DRCI) when discharge from the powerhouse falls below the minimum flow requirement. Please consider this letter as fulfillment of the notification requirement for a minimum flow deviation.

The Hoist plant tripped and was returned-to-service 3 times on Sunday, December 4, 2011 due to heavy, wet snow, causing transmission system faults. The first plant trip was at 07:59 EST. An operator was called out and arrived at the plant at 09:10 EST and the unit was returned-to-service at 09:32 EST. Transmission system faults took out the Hoist plant again at 10:49 EST and the plant was returned-to-service at 11:26 EST. Problems continued with the transmission system and the plant went down a third time at 13:00 EST and was returned-to-service at 14:08 EST. During these three trips, the low level outlet (LLO) was not opened because the transmission system was returned-to-service and assumed to be stable. No adverse environmental effects were noted.

The agencies (MDEQ, MDNR, USFWS and DRCI) were informed of the event via e-mail on Monday, December 5, 2011.

If you have any questions regarding this letter, please contact Robert Meyers at (906) 485-2419 or Virgil Schlorke at (906) 485-2465.

Sincerely,

Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

RJM/ebr

Enc: December 5, 2011 E-mail Notification to Agencies

cc:	Mr. Gil Snyder, WPSC - D2	Mr. Keith Moyle, UPPCO - UISC
	Mr. Shawn Puzen, IBS - D2	Mr. Virgil Schlorke, UPPCO- UISC
	Ms. Joan Johaneck, WPSC - D2	Mr. Robert Meyers, UPPCO - UISC
	Mr. Dave Giesler, IBS - D2	Mr. Howard Giesler, WPSC - PUL
	Mr. Ben Trotter, IBS - D2	Ms. Peggy Harding, FERC - CRO
	Mr. John Myers, IBS - D2	

Appendix 3

Summary of Gate and Valve Openings

1970 TO 2010

YEARS



Geotechnical
Environmental and
Water Resources
Engineering

July 21, 2011
Project No. 112390

Mr. Robert Meyers
Upper Peninsula Power Company
500 North Washington Street
Ishpeming, MI 49849

**RE: Results of Flow Assessment Study -18-inch By-Pass Pipe,
McClure Hydroelectric Dam, Marquette County, Michigan**

Dear Bob:

GEI Consultants, Inc. (GEI) is pleased to provide you with a summary of the flow measurements conducted on the 18-inch HDPE by-pass pipe at the above-referenced project. The flow measurements were performed on Thursday, July 21, 2011. It is our understanding that the flow measurements are required as part of your License requirements.

Description of Work

Jeff Bal, P.E. and Mike Gatzow, P.E. of GEI Consultants conducted flow measurements on the 18 inch HDPE bypass pipe at the McClure Dam. Jeff and Mike were assisted by UPPCO personnel. The measurements as summarized below were taken using a Dynasonics (Model TXFP) Portable Ultrasonic Transit Time Flow Meter. The meter was installed on the horizontal section of bypass pipe located at the base of the stairs located on the crest of the Dam. Measurements were recorded during varying "open" valve positions of the bypass pipe. Pertinent data taken at the time of the test is also included below.

Date Work Performed: Thursday, July 21, 2011

Time of Test: Start at 9: 25 a.m.

Air Temperature: 76.8 degrees F

Surface Water Temperature: 74.8 degrees F

Water Elevation: 1196.08

Equipment: Dynasonics Model TXFP Transit Time Meter

Test Location: 18" HDPE bypass pipe – horizontal run below stairs at top of dam. Meter centered on horizontal run

Mr. Robert Meyers

- 2 -

July 21, 2011

Test Parameter Conditions and Results

Discharge Valve Position (inches open)	Discharge Valve Max. Open (inches)	Percent Open	Metered Flow Rates	
			cu.ft./sec	gal/min
10.2	18.5	55.1	15.0	6732
11.64	18.5	62.3	17.8	7989
12.72	18.5	68.8	20.0	8976
13.92	18.5	75.2	20.8	9335
15.12	18.5	81.7	22.6	10143

At the completion of the flow testing, the bypass discharge valve was positioned so that the flow rate of 20 cfs was observed.

We appreciate the opportunity to have provided these services and would like to thank you and your staff for assisting us during this work. If you have any questions concerning the data or results, please do not hesitate to contact Mike Gatzow at 906-214-4153.

Sincerely,

GEI CONSULTANTS, INC.



Jeff R. Bal, P.E.
Senior Engineer



Michael J. Gatzow, P.E.
Senior Consultant

JRB:plw

cc: Mike Carpenter, GEI

Silver Lake – Low Level Outlet Gate Operation Log – 2011

Date & Time	Pond Elevation Feet – NGVD	LLO Position Open – Inch	Flow – CFS	Operator
01/01/11		9	25	RJM
01/10/11	1469.54	6.5	17	GB
04/05/11	1469.22	8.5	25	DG/GL
04/14/11	1472.26	8	25	RS/DG
04/25/11	1473.46	7.75	25	DG/GB
04/28/11	1474.33	16	70	DG/GB
04/29/11	1474.43	22	108	DG
05/03/11	1474.6	22	108	DG/GB
05/06/11	1474.34	16	70	DG/RS
05/09/11	1474.28	10	36	RS
05/10/11	1474.36	6.75	20	GB
05/16/11	1475.09	6.5	20	DG
06/01/11	1475.45	5.25	15	DG
07/02/11	1475.65	4.0	10	GB
09/30/11	1474.36	5.5	15	GB

Hoist – Low Level Outlet Gate Operation Log – 2011

Date & Time	Pond Elevation Feet – NGVD	LLO Position Open – Turns	Flow – CFS	Operator
01/01/11			0	RJM
01/17/11	1336.94	30	30	DG/GB
05/04/11	1342.47	150	150	RS
05/05/11	1342.46	-150	0	RS
05/10/11	1342.30	150	150	DG
05/10/11	1342.33	-150	0	DG
05/15/11	1342.58	150	150	RS
05/16/11	1342.59	-150	0	RS
05/30/11	1342.17	100	100	GB
05/31/11	1342.15	150	150	DG
05/31/11	1342.15	10	160	DG
06/01/11	1342.15	20	180	RS
06/01/11	1342.15	20	200	RS
06/02/11	1342.07	15	215	DG
06/03/11	1342.07	-215	0	GB
07/01/11	1341.05	135	135	RS
07/01/11	1341.05	-135	0	RS
07/23/11	1340.26	125	125	GB
09/30/11	1338.25	90	90	GB/JR
09/30/11	1338.60	-90	0	DG
10/11/11	1339.09	90	90	DG
10/12/11	1339.09	-90	0	DG
10/26/11	1339.65	100	100	DG
10/26/11	1339.65	-100	0	GB
11/09/11	1339.54	100	100	DG
11/10/11	1339.64	-100	0	DG
11/12/11	1339.60	100	100	RS
11/12/11	1339.60	-100	0	RS

Appendix 4

Documentation of Consultation

Document Content(s)

20120223 DRV out.PDF.....1-2

20120223 DRV out attach a.PDF.....3-72